Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-29 (Cancelled)

30. (currently amended) A composite (M) comprising:

a) at least 75 vol% of a mixed electronic/oxygen O^{2-} anionic conducting compound (C_1) which, at the use temperature, are in the form of a crystal lattice having oxide ion vacancies, compound (C_1) being a perovskite compound of a formula selected from the group consisting of:

1) $La_{(1-x-u)}Sr_xAl_uFe_{(1-v)}Ti_vO_{3-\delta}$,
2) $La_{(1-x-u)}Sr_xAl_uFe_{(1-v)}Ga_v\ O_{3-\delta}$,
3) $La_{(1-x)}Sr_xFe_{(1-v)}Ti_vO_{3-\delta}$,
4) $La_{(1-x)}Sr_xTi_{(1-v)}Fe_v\ O_{3-\delta}$,
5) $La_{(1-x)}Sr_xFe_{(1-v)}Ga_vO_{3-\delta}$ or
6) $La_{(1-x)}Sr_xFeO_{3-\delta}$

where:

$0 < x \leq 0.5$;

$0 \leq u \leq 0.5$;

$(x + u) \leq 0.5$;

$0 \leq y \leq 0.9$;

$0 \leq v \leq 0.9$;

$0 \leq (y + v) \leq 0.9$; and

w is such that the structure in question is electrically neutral;

b) from at least 0.1 vol% but not more than 10 vol% of a compound (C_2) ~~chosen from oxide-type materials, calcium oxide (CaO), aluminum oxide (Al_2O_3), zirconium~~

~~oxide (ZrO_2), titanium oxide (TiO_2), mixed strontium aluminum oxides $SrAl_2O_4$~~ selected from the group consisting of magnesium oxide (MgO) and ~~or $Sr_3Al_2O_6$,~~ mixed barium titanium oxide ($BaTiO_3$)~~, mixed calcium titanium oxide ($CaTiO_3$), $La_{0.5}Sr_{0.5}Fe_{0.9}Ti_{0.1}O_{3-\delta}$ or $La_{0.6}Sr_{0.4}Fe_{0.9}Ga_{0.1}O_{3-\delta}$~~; and

c) from 0 vol% to 2.5 vol% of a compound (C_3) produced from at least one chemical reaction represented by the equation:

$$xF_{C1} + yF_{C2} \rightarrow zF_{C3},$$

in which equation F_{C1}, F_{C2} and F_{C3} represent the respective crude formulae of compounds (C_1), (C_2) and (C_3) and x, y and z represent rational numbers greater than or equal to 0.

31. (previously presented) The composite of claim 30, in which grains of compound (C_2) have an equiaxed shape with a diameter ranging from 0.1 µm to 5 µm.

32. (currently amended) The composite of claim 30, in which the volume fraction of compound (C_3) does not exceed 1.5% ~~and more particularly does not exceed 0.5% by volume~~.

33. (Previously presented) The composite of claim 32, in which the volume fraction of compound (C_3) in the composite tends toward 0.

34. (canceled)

35. (currently amended) The composite of claim ~~34~~ 30, in which the volume fraction of compound (C_2) does not exceed 5%.

36. (canceled)

37. (canceled)

38. (canceled)

39. (canceled)

40. (canceled)

41. (canceled)

42. (canceled)

43. (canceled)

44. (canceled)

45. (canceled)

46. (previously presented) The composite of claim 30, of formula:

a) $La_{0.6}\ Sr_{0.4}\ Fe_{0.9}\ Ga_{0.1}\ O_{3-\delta}$, or

b) $La_{0.5}\ Sr_{0.5}\ Fe_{0.9}\ Ti_{0.1}\ O_{3-\delta}$.

47. (canceled)

48. (canceled)

49. (canceled)

50. (previously presented) The composite of claim 30, wherein compound (C_2) is MgO.